AUDIT REPORT

Hostname: Dist_SW1 Config file name: $dist_sw1.txt$

Config hash: 84e02f72435c4f489bfe42c93e33b45e3ed0f2fb

Vendor: OS: ios

Facility layer: collapsed_distribution_access

L3 protocols:

Enabled functions: ospf ipv4,hsrp,acl created

Date: 18/05/2020_10:01

SUCCESS STATISTICS

Weighted score 95 out of 100 coefficient:

Successful checks: 93.7% Unsuccessful checks: 6.3%

Total number of relevant 159

started checks:

Successful checks: 149 Unsuccessful 'Critical': Unsuccessful 'High': Unsuccessful 'Medium': 3 Unsuccessful 'Low': 1 Unsuccessful 'Notice':

Authentication, Authorization, Accounting

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	AAA new model/ Enabled AAA	High	False	False	Successful 🗸
_	t configuration setting found in: lew-model				
2	AAA server set	High	False	False	Successful 🗸
radiu: addre	t configuration setting found in: s server RADIUS_SERVER ess ipv4 192.168.60.11 auth-port 1645 acct-port 16 adKey1	546			
3	AAA server group	High	False	False	Successful 🗸
aaa g	t configuration setting found in: croup server radius RADIUS_SERVER cr name RADIUS_SERVER				
4	AAA authentication login	High	False	False	Successful 🗸
_	t configuration setting found in: uthentication login default group RADIUS_SERVER	local enable			
5	AAA authentication login fallback	High	False	False	Successful 🗸
	t configuration setting found in: uthentication login default group RADIUS_SERVER	local enable			

6	AAA authentication login only local disabled	High	False	False	Successful 🗸				
7	AAA authentication login none disabled	Critical	False	False	Successful 🗸				
8	AAA authentication "enable"	Medium	False	False	Successful 🗸				
	Right configuration setting found in: aaa authentication enable default group RADIUS_SERVER enable								
9	AAA authentication "enable" fallback	Medium	False	False	Successful 🗸				
	t configuration setting found in: outhentication enable default group RADIUS_SERVE	R enable							
10	AAA authentication "enable" only local disabled	Medium	False	False	Successful 🗸				
11	AAA authentication "enable" none disabled	High	False	False	Successful 🗸				
12	AAA authorization "exec"	High	False	False	Successful 🗸				
	t configuration setting found in: outhorization exec default group RADIUS_SERVER lo	ocal if-authen	ticated						
13	AAA authorization "exec" fallback	High	False	False	Successful 🗸				
	t configuration setting found in: outhorization exec default group RADIUS_SERVER k	ocal if-authen	ticated						
14	AAA authorization "exec" only local disabled	High	False	False	Successful 🗸				
15	AAA authorization "exec" none disabled	Critical	False	False	Successful 🗸				
16	AAA accounting "connection"	High	False	False	Successful 🗸				
	t configuration setting found in: accounting connection default start-stop group RAD	OIUS_SERVER							
17	AAA auccounting "connection" none disabled	High	False	False	Successful 🗸				
18	AAA accounting "exec"	High	False	False	Successful 🗸				
	t configuration setting found in: accounting exec default start-stop group RADIUS_S	ERVER							
19	AAA accounting "exec" none disabled	High	False	False	Successful 🗸				
20	AAA source interface	Medium	False	False	Successful 🗸				
	t configuration setting found in: lius source-interface Loopback0								
21	AAA authentication max attempts less or equal to 5	High	False	False	Successful 🗸				

Access to device

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Exec timeout <=5 minutes	Medium	False	False	Successful 🗸
line of	t configuration setting found in: con 0 -timeout 5 0 /ty 0 4 -timeout 5 0				
2	AUX connection input disabled	High	False	False	Successful 🗸
3	AUX no execution set	High	False	False	Successful 🗸
Righ line a					
4	Remote output connections disabled	Medium	False	False	Successful 🗸

line of trans line a trans line v	port output none lux 0 port output none rty 0 4 port output none				
5	Local user database with encrypted password	Critical	False	False	Successful 🗸
_	t configuration setting found in: name admin secret 5 \$1\$nC8Q\$Rm5fiCkwlGgH4HlJ	lwvi00			
6	Local user database with plaintext password disabled	Critical	False	False	Successful 🗸
7	Enable password encrypted	Critical	False	False	Successful 🗸
	t configuration setting found in: le secret 5 \$1\$CHkD\$42X6qwH/o6pvyqyByHYhD.				
8	Enable password plaintext disabled	Critical	False	False	Successful 🗸
9	Local login to virtual terminal disabled	Critical	False	False	Successful 🗸
10	Restrict login to device - IPv4 ACL	Critical	False	False	Successful 🗸
line v	t configuration setting found in: rty 0 4 ss-class IPV4_VTY_ACL in				
11	ACL specified for VTY access is created	Critical	False	False	Error 🗶
Fix n Cann mana ip acc rema	ment: ot be fixed automatically! notice: ot be fixed automatically! If search is not successfunction aging devices with these commands: cess-list standard <acl name=""> rk Permiting managemnt device it <ip address=""> <wildcard mask=""></wildcard></ip></acl>	ul create ACL	which permits	only needed e	end stations for
12	Log login to device on failure	High	False	False	Successful 🗸
	t configuration setting found in: on-failure log				
13	Log login to device on success	Medium	False	False	Successful 🗸
	t configuration setting found in: on-success log				
14	Login quiet mode	Medium	False	False	Successful 🗸
_	t configuration setting found in: quiet-mode access-class IPV4_VTY_ACL				
15	ACL exists for specified login quiet mode	e Medium	False	False	Error 🗶
	ment: ot be fixed automatically!				
Cann mana ip acc rema	notice: ot be fixed automatically! If search is not successful aging devices with these commands: cess-list standard <acl name=""> rk Permiting managemnt device it <ip address=""> <wildcard mask=""></wildcard></ip></acl>	ul create ACL	which permits	only needed e	end stations for
16	One user change config at time	High	False	False	Successful 🗸
	t configuration setting found in: guration mode exclusive				
17	Legal banner MOTD	Low	False	False	Successful 🗸
	t configuration setting found in: er motd ^C Unauthorized access will be prosecute	d!! ^C			
18	Legal banner exec	Low	False	False	Successful 🗸

Right configuration setting found in: banner exec ^C * IOSv is strictly limited to use for evaluation, demonstration and IOS * * education. IOSv is provided as-is and is not supported by Cisco's * * Technical Advisory Center. Any use or disclosure, in whole or in part, * * of the IOSv Software or Documentation to any third party for any * * purposes is expressly prohibited except as otherwise authorized by * * Cisco in writing. * Legal banner login False False Low Successful < Right configuration setting found in: banner login ^C ********************** * IOSv is strictly limited to use for evaluation, demonstration and IOS * * education. IOSv is provided as-is and is not supported by Cisco's * * Technical Advisory Center. Any use or disclosure, in whole or in part, * * of the IOSv Software or Documentation to any third party for any * * purposes is expressly prohibited except as otherwise authorized by * * Cisco in writing. * ****************************** 20 Session timeout Medium False False Successful 🗸 Right configuration setting found in: line con 0 session-timeout 30 line aux 0 session-timeout 30 line vty 0 4 session-timeout 30 21 AUX exec timeout one second High **False False** Successful < Right configuration setting found in: line aux 0 exec-timeout 0 1 Not relevant Restrict login to device - IPv6 ACL Critical True **False** Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant ACL IPv6 specified for VTY access is 23 **False** Critical True created Comment: Skipped, required function ipv6 not configured on device. Everything is OK. 24 Login DOS block for High **False** Successful < Right configuration setting found in: login block-for 120 attempts 3 within 30

SSH

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	SSH enable on management connection	Critical	False	False	Successful 🗸
line v	t configuration setting found in: ty 0 4 port input ssh				
2	SSH version 2	Critical	False	False	Successful 🗸
_	t configuration setting found in: n version 2				
3	SSH timeout	Medium	False	False	Successful 🗸

	nt configuration setting found in: th time-out 30				
4	SSH max 3 retries	Medium	False	False	Successful 🗸
5	SSH source interface	High	False	False	Successful 🗸
_	nt configuration setting found in: h source-interface Loopback0				
6	SSH not default port	High	False	False	Successful 🗸
_	nt configuration setting found in: h port 2223 rotary 1				
7	SSH not default port applied	High	False	False	Successful 🗸
_	nt configuration setting found in: vty 0 4 ry 1				

Device identification

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Hostname set	Low	False	False	Successful 🗸
Cann	ment: ot be fixed automatically! t configuration setting found in: ame Dist_SW1				
2	Domain name set	Low	False	False	Successful 🗸
_	t configuration setting found in: main-name thesis-test.cz				
3	All interfaces have description	Low	False	False	Error X

Comment:

Cannot be fixed automatically!

Right configuration setting found in:

interface GigabitEthernet0/0 description uplink

Found port(s) with error:

Loopback0

Port-channel1

GigabitEthernet0/1

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/0

GigabitEthernet1/1

GigabitEthernet1/2 GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

Vlan20

Vlan30

Fix notice:

Set interface descrtiption with command: interface <interface name> description <description of interface>

Fix ignore comment:

Fixing commands suppressed due to manual need of manual chenage and name determination.

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	SNMP v2 write disabled	Critical	False	False	Error 🗶
	r configuration setting found in: o-server community SNMP_V2 RW				
2	SNMP v2 read without ACL disabled	Critical	False	False	Successful 🗸
3	SNMP v2 read with ACL disabled	Critical	False	False	Successful 🗸
4	SNMP v1 trap host disabled	Critical	False	False	Successful 🗸
5	SNMP v2 trap host disabled	Critical	False	False	Successful 🗸
6	SNMP v3 read [authnopriv noauth authpriv without ACL] or write disabled	Critical	False	False	Successful 🗸
7	SNMP v3 read authpriv with ACL enabled	l Critical	False	False	Successful 🗸
	t configuration setting found in: o-server group SNMP_V3_GRP v3 priv read READVIE	: :Wv3 access :	SNMP_V3		
8	SNMP v3 read authpriv with IPv6 ACL enabled	Critical	True	False	Not relevant ✓
Skipp	ment: led, required function ipv6 not configured on device SNMP user v1 v2c or v3				
9	[noauth authnopriv no sha no aes without ACL] disabled	Critical	False	False	Successful 🗸
10	SNMP trap source interface	High	False	False	Successful 🗸
_	t configuration setting found in: -server trap-source Loopback0				
11	SNMP server location	High	False	False	Successful 🗸
	t configuration setting found in: -server location GNS3LAB				
12	SNMP v3 traps priv	Medium	False	False	Successful 🗸
	t configuration setting found in: -server host 192.168.60.11 version 3 priv SNMPv3				
13	SNMP traps v3 read [authnopriv noauth] or v1 v2 disabled	Critical	False	False	Successful 🗸
14	SNMP traps enabled	Medium	False	False	Successful 🗸
_	t configuration setting found in: -server enable traps snmp authentication linkdowr	n linkup colds	tart warmstart		
15	ACL is created for SNMPv3	Critical	False	False	Error 🗶
Cann	ment: ot be fixed automatically! otice: ot be fixed automatically! If search is not successfu	ul create ACL	. which permits	only needed e	nd stations for
receiv ip aco rema	ving SNMP with these commands: cess-list standard <acl name=""> rk Permiting SNMP it <ip address=""> <wildcard mask=""></wildcard></ip></acl>		·	ŕ	
16	ACL IPv6 is created for SNMPv3	Critical	True	False	Not relevant ✓
	ment: ed, required function ipv6 not configured on device	e. Everythina	is OK.		
17	SNMP interface index persist enabled globally	High	False	False	Successful 🗸
_	t configuration setting found in: ifmib ifindex persist				
18	SNMP interface index persist enabled per interface	High	False	False	Matched by equivalent ✓

Comment:Module was marked as matched by equivalent by module 05_20_snmp_ifindex_persist_globally.yaml

Syslog

No.	Name	Severity	Skipped	Cannot determine search/fix				
1	Syslog server enabled	High	False	False	Successful 🗸			
	t configuration setting found in: ng host 192.168.50.11							
2	Syslog server IPv6 enabled	High	True	False	Not relevant ✓			
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
3	Syslog source interface	Medium	False	False	Successful 🗸			
	t configuration setting found in: ng source-interface Loopback0							
4	Syslog format	Medium	False	False	Successful 🗸			
	t configuration setting found in: ce timestamps log datetime msec							
5	Syslog critical alerts to console	Medium	False	False	Successful 🗸			
	t configuration setting found in: ng console critical							
6	Syslog send informational traps	High	False	False	Successful 🗸			
7	Syslog buffer set with severity	High	False	False	Successful 🗸			
	t configuration setting found in: ng buffered 40960 informational							
8	Syslog local backup	High	False	False	Successful 🗸			
	t configuration setting found in: ng persistent url flash:/							
9	Syslog sequence numbers added	Medium	False	False	Successful 🗸			
_	t configuration setting found in: ce sequence-numbers							

NTP

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	NTP server set	High	False	False	Successful 🗸
_	t configuration setting found in: erver 192.168.60.11				
2	NTP source interface	Medium	False	False	Successful 🗸
_	t configuration setting found in: purce Loopback0				
3	NTP authentication key	High	False	False	Successful 🗸
	t configuration setting found in: uthentication-key 1 md5 151C1F1C342B38373F37	647040 7			
4	NTP trusted key	High	False	False	Successful 🗸
_	t configuration setting found in: usted-key 1				
5	NTP authenticate	High	False	False	Successful 🗸

High load

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	SNMP traps for CPU load	Medium	False	False	Error 🗶
	erated fix: server enable traps cpu threshold				
2	Threshold for CPU load	Medium	False	False	Successful 🗸
_	t configuration setting found in: ess cpu threshold type total rising 70 interval 5				
3	Statistics entry for CPU load	Low	False	False	Successful 🗸
_	t configuration setting found in: ess cpu statistics limit entry-percentage 70				
4	Reserve memory for critical notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory reserve critical 1000				
5	Minimum CPU memory notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory free low-watermark processor 2000				
6	Minimum IO memory notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory free low-watermark IO 2000				

Spanning tree

No.	Name	Severity	Skipped	Cannot determine search/fix	Status
1	Portfast globally enabled	High	False	False	Successful 🗸
_	t configuration setting found in: ning-tree portfast edge default				
2	Portfast enabled on access interface	High	False	False	Matched by equivalent ✓
	ment: lle was marked as matched by equivalent by modu	le 09_01_stp_	_portfast_defau	lt.yaml	
3	BPDU Guard globally enabled	Critical	False	False	Successful 🗸
_	t configuration setting found in: ning-tree portfast edge bpduguard default				
4	BPDU Guard enabled on access interface	High	False	False	Matched by equivalent ✓
	ment: lle was marked as matched by equivalent by modu	le 09_03_stp_	_bpdu_guard.ya	aml	
5	BPDU Filter globally disabled	Critical	False	False	Successful 🗸
5	BPDU Filter disabled on access interface	High	False	False	Not relevant ✓
Modu	ment: lle 09_06_stp_bpdu_filter_interface.yaml configured module has not run yet with specified cmd_match_s				
Li iu c i		Critical	False	False	

Right configuration setting found in:

spanning-tree loopguard default

8 Loop Guard enabled on access interface High False False Matched by equivalent

Comment:

Module was marked as matched by equivalent by module 09_07_stp_loop_guard.yaml

VLAN

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Default Vlan not used	Critical	False	False	Error 🗶

Comment:

Cannot be fixed automatically! Cannot automatically determine VLAN assignment to port.

Found port(s) with error:

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2 GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

Fix notice:

Eliminate ports with default Vlan by command with Vlan ID different than 1 interface <interface name>

nterrace <interrace name>

switchport mode access

switchport access vlan <vlan id>

2	Management VLAN + SVI set and different than 1	Medium	False	False	Successful 🗸
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Comment:

Cannot be fixed automatically! Cannot automatically set diffrenet IP among SVI(s) a lot of prerequirements must be met as existing VLAN and port assigned to VLAN.

Right configuration setting found in:

interface Vlan20 ip address 192.168.20.3 255.255.255.0 no ip redirects no ip unreachables no ip proxy-arp standby 20 ip 192.168.20.1 snmp ifindex persist

3	Management VLAN gateway	Medium	False	False	Error 🗶	
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Comment:

Cannot be fixed automatically! Cannot automatically set default gateway among different switches.

Fix notice:

Default gateway can be set with command:

ip default-gateway <ip address>

4	Native vlan different than 1	Critical	False	False	Successful 🗸
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Right configuration setting found in:

interface Port-channel1 switchport trunk native vlan 100 interface GigabitEthernet0/1 switchport trunk native vlan 100 interface GigabitEthernet1/0 switchport trunk native vlan 100 interface GigabitEthernet1/1 switchport trunk native vlan 100 interface GigabitEthernet1/2

switchport trunk native vlan 100

5	Specified allowed VLAN on trunk	Critical	False	False	Successful 🗸

Right configuration setting found in: interface Port-channel1 switchport trunk allowed vlan 20,30 interface GigabitEthernet0/1 switchport trunk allowed vlan 20,30 interface GigabitEthernet1/0 switchport trunk allowed vlan 20,30 interface GigabitEthernet1/1 switchport trunk allowed vlan 20,30 interface GigabitEthernet1/2 switchport trunk allowed vlan 20,30 6 Switchport mode dynamic disabled Critical **False False** Successful < 7 Switchport implicit dynamic disabled Critical **False False** Successful < Right configuration setting found in: interface GigabitEthernet0/2 switchport mode access interface GigabitEthernet0/3 switchport mode access interface GigabitEthernet1/3 switchport mode access interface GigabitEthernet2/0 switchport mode access interface GigabitEthernet2/1 switchport mode access interface GigabitEthernet2/2 switchport mode access interface GigabitEthernet2/3 switchport mode access interface GigabitEthernet3/0 switchport mode access interface GigabitEthernet3/1 switchport mode access interface GigabitEthernet3/2 switchport mode access interface GigabitEthernet3/3 switchport mode access DTP disabled 8 Critical **False False** Successful 🗸 Right configuration setting found in: interface Port-channel1 switchport nonegotiate interface GigabitEthernet0/1 switchport nonegotiate interface GigabitEthernet0/2 switchport nonegotiate interface GigabitEthernet0/3 switchport nonegotiate interface GigabitEthernet1/0 switchport nonegotiate interface GigabitEthernet1/1 switchport nonegotiate interface GigabitEthernet1/2 switchport nonegotiate interface GigabitEthernet1/3 switchport nonegotiate interface GigabitEthernet2/0 switchport nonegotiate interface GigabitEthernet2/1 switchport nonegotiate interface GigabitEthernet2/2 switchport nonegotiate interface GigabitEthernet2/3 switchport nonegotiate interface GigabitEthernet3/0 switchport nonegotiate interface GigabitEthernet3/1 switchport nonegotiate interface GigabitEthernet3/2 switchport nonegotiate interface GigabitEthernet3/3 switchport nonegotiate VTP disabled Critical **False False** Successful <

Network Mapping

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	CDP globally disabled	Critical	False	False	Successful 🗸
	t configuration setting found in: p run				
2	CDP disabled on interface(s)	Critical	False	False	Matched by equivalent ✓
	ment: le was marked as matched by equivalent by modu	le 11_01_cdp	_run_disabled. _!	yaml	
3	LLDP globally disabled	Critical	False	False	Successful 🗸
4	LLDP receive disabled on interface(s)	Critical	False	False	Not relevant ✓
Modu	ment: le 11_04_lldp_receive.yaml configured to run after ot run yet with specified cmd_match_status, 11_04				error but that module
5	LLDP transmit disabled on interface(s)	Critical	False	False	Not relevant ✓
Modu	ment: le 11_05_lldp_transmit.yaml configured to run afte lle has not run yet with specified cmd_match_statu				s error but that
6	Proxy ARP disabled on interface(s)	Critical	False	False	Successful 🗸
no ip interf	ace Vlan20 proxy-arp ace Vlan30 proxy-arp ICMP Unreachable disabled on interface(s)	High	False	False	Successful 🗸
interf no ip interf no ip interf	t configuration setting found in: ace GigabitEthernet0/0 unreachables ace Vlan20 unreachables ace Vlan30				
·	unreachables ICMPv6 Unreachable disabled on	l II a la	T	False	Not relevant
8	interface(s)	High	True	False	✓
	ment: ed, required function ipv6 not configured on devic	e. Everything	is OK.		
9	ICMP Mask Reply disabled on interface(s)	High	False	False	Successful 🗸
10	Directed broadcast disabled on interface(s)	Critical	False	False	Successful 🗸
11	ICMP Redirects disabled on interface(s)	High	False	False	Successful 🗸
interf no ip interf no ip interf	t configuration setting found in: face GigabitEthernet0/0 redirects face Vlan20 redirects face Vlan30 redirects				
12	ICMP 224.0.0.1 ping disabled in ACL	Medium	False	False	Successful 🗸

Right configuration setting found in: ip access-list extended DENY_NETWORK_MAP remark deny ping all nodes deny icmp any host 224.0.0.1 echo log-input remark deny host query deny igmp any any 1 log-input permit ip any any remark deny ping all nodes remark deny host query IGMP Host Query disabled in ACL Medium False False Successful < Right configuration setting found in: ip access-list extended DENY NETWORK MAP remark deny ping all nodes deny icmp any host 224.0.0.1 echo log-input remark deny host query deny igmp any any 1 log-input permit ip any any remark deny ping all nodes remark deny host query Not relevant ICMPv6 ff02::1 ping disabled in ACL Medium True **False** Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant MLD Host Query disabled in ACL Medium True **False** Comment: Skipped, required function ipv6 not configured on device. Everything is OK. ACL against IPv4 network monitoring Medium False **False** Successful < applied on interface(s) Right configuration setting found in: interface GigabitEthernet0/2 ip access-group DENY NETWORK MAP in interface GigabitEthernet0/3 ip access-group DENY NETWORK MAP in interface GigabitEthernet1/3 ip access-group DENY_NETWORK_MAP in interface GigabitEthernet2/0 ip access-group DENY_NETWORK_MAP in interface GigabitEthernet2/1 ip access-group DENY_NETWORK_MAP in interface GigabitEthernet2/2 ip access-group DENY_NETWORK_MAP in interface GigabitEthernet2/3 ip access-group DENY_NETWORK_MAP in interface GigabitEthernet3/0 ip access-group DENY_NETWORK_MAP in interface GigabitEthernet3/1 ip access-group DENY_NETWORK_MAP in interface GigabitEthernet3/2 ip access-group DENY_NETWORK_MAP in interface GigabitEthernet3/3 ip access-group DENY_NETWORK_MAP in Not relevant ACL against IPv6 network monitoring 17 Medium True **False** applied on interface(s) Comment: Skipped, required function ipv6 not configured on device. Everything is OK.

Routing

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	OSPF IPv4 Router ID	Medium	False	False	Successful 🗸
route	t configuration setting found in: er ospf 1 er-id 1.1.1.1				

_	OCDE ID-C Davidan ID	NA - alliana	T	E-I	Not relevant
2	OSPF IPv6 Router ID	Medium	True	False	✓
	ment:		uktor to OK		
Skipp	ped, required function ospf ipv6 not configured on	device. Every	tning is OK.		Not relevant
3	OSPFv3 Address Family General Router ID	Medium	True	False	✓
	ment: ped, required function ospfv3 not configured on de	vice. Everyth	ing is OK.		
4	OSPFv3 Address Family IPv4 Router ID	Medium	True	False	Not relevant ✓
Com	ment:				
Skipp	oed, required function ospfv3 not configured on de	vice. Everyth	ing is OK.		
5	OSPFv3 Address Family IPv6 Router ID	Medium	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on devic	e. Everything	g is OK.		
6	EIGRP IPv4 Router ID	Medium	True	False	Not relevant
					✓
	ment: ped, required function eigrp ipv4 not configured on	device. Ever	ything is OK.		
7	EIGRP IPv6 Router ID	Medium	True	False	Not relevant ✓
	ment: ped, required function eigrp ipv6 not configured on	device. Ever	ything is OK.		
8	EIGRP Named IPv4 Router ID	Medium	True	False	Not relevant ✓
	ment: ped, required function eigrp named not configured	on device. Ev	verything is OK		
9	EIGRP Named IPv6 Router ID	Medium	True	False	Not relevant ✓
C	ment:				
	ment: ped, required function ipv6 not configured on devic	e. Everything	g is OK.		
10	BGP Router ID	Medium	True	False	Not relevant ✓
Com	ment:				
	ped, required function bgp not configured on device	e. Everything	is OK.		
11	OSPF IPv4 Log adjacency changes	Medium	False	False	Successful 🗸
12	OSPF IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓
Com	ment:				
Skipp	ped, required function ospf ipv6 not configured on	device. Every	thing is OK.		Nat water
13	OSPFv3 Address Family IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓
	ment:	_			
	ped, required function ipv6 not configured on deviced OSPFv3 Address Family IPv4 Log	e. Everything	g is OK.		Not relevant
14	adjacency changes	Medium	True	False	✓
	ment: ped, required function ospfv3 not configured on de	vice. Everyth	ing is OK.		
15	OSPFv3 Address Family IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	o Evonathin	n is OV		
экірі	· · · · · · · · · · · · · · · · · · ·	, ,	y 15 UN.		Not relevant
16	EIGRP IPv4 Log neighbor changes	Medium	True	False	✓

17 EIGRP IPv6 Log neighbor changes Comment: Skipped, required function eigrp ipv6 not config 18 EIGRP Named IPv4 Log neighbor changes	Medium figured on device. E Medium	True	False	Not relevant Not relevant Not relevant
Skipped, required function eigrp ipv6 not config 18 EIGRP Named IPv4 Log neighbor	Medium figured on device. E Medium	True	False DK.	Not relevant
18 EIGRP Named IPv4 Log neighbor	Medium figured on device. E Medium	True	False DK.	Not relevant
	Medium			
Comment: Skipped, required function eigrp named not con		True	False	
19 EIGRP Named IPv6 Log neighbor changes	on device. Everything			✓
Comment: Skipped, required function ipv6 not configured of		g is OK.		
20 BGP Log neighbor changes	Medium	True	False	Not relevant ✓
Comment: Skipped, required function bgp not configured o	n device. Evervthing	ı is OK.		
21 RIP auto summary disabled	High	True	False	Not relevant ✓
Comment: Skipped, required function rip not configured on	device. Everything	is OK.		
22 EIGRP IPv4 Auto summary disable		True	False	Not relevant ✓
Comment: Skipped, required function eigrp ipv4 not config	ured on device. Ever	vthing is OK		
23 EIGRP IPv6 Auto summary disable		True	False	Not relevant ✓
Comment: Skipped, required function eigrp ipv6 not config	ured on device. Ever	ovthing is OK		
24 EIGRP Named IPv4 Auto summary disabled		True	False	Not relevant ✓
Comment: Skipped, required function eigrp named not con	figured on device. F	verything is (NΚ	
25 EIGRP Named IPv6 Auto summary disabled		True	False	Not relevant ✓
Comment: Skipped, required function ipv6 not configured of	on device. Everything	g is OK.		
26 BGP Auto summary disabled	High	True	False	Not relevant ✓
Comment: Skipped, required function bgp not configured o	n device Everything	ı is OK		
27 BGP Multihop disabled or TTL secu		True	False	Not relevant ✓
Comment: Skipped, required function bgp not configured o	n device. Everything	ı is OK		
28 IP Source routing (IP Options) disa		False	False	Successful 🗸

Filtering

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	IP Options disabled	Critical	False	False	Successful 🗸

	ht configuration setting found in: ptions drop				
2	ACL filter IPv6 unknown extended header	Critical	True	False	Not relevant ✓
	nment: oped, required function ipv6 not configured on dev	vice. Everythin	g is OK.		
3 ACL filter IPv6 unknown extended header applied on ACCESS interface Critical True False					
	nment: oped, required function ipv6 not configured on dev	vice. Everythin	g is OK.		

First Hop Security

Right configuration setting found in: interface GigabitEthernet0/2 switchport port-security interface GigabitEthernet1/3 switchport port-security interface GigabitEthernet2/0 switchport port-security interface GigabitEthernet2/1 switchport port-security interface GigabitEthernet2/1 switchport port-security interface GigabitEthernet2/2 switchport port-security interface GigabitEthernet2/2 switchport port-security interface GigabitEthernet2/3 switchport port-security interface GigabitEthernet3/0 switchport port-security interface GigabitEthernet3/1 switchport port-security interface GigabitEthernet3/2 switchport port-security interface GigabitEthernet3/3 switchport port-security 2 Port security maximum 1 allowed MAC on port 3 Port security violation shutdown Critical False False Success 4 802.1x globally enabled High False False Success Right configuration setting found in: dot1x system-auth-control	sful 🗸
interface GigabitEthernet0/2 switchport port-security interface GigabitEthernet1/3 switchport port-security interface GigabitEthernet1/3 switchport port-security interface GigabitEthernet2/0 switchport port-security interface GigabitEthernet2/1 switchport port-security interface GigabitEthernet2/1 switchport port-security interface GigabitEthernet2/2 switchport port-security interface GigabitEthernet2/3 switchport port-security interface GigabitEthernet3/0 switchport port-security interface GigabitEthernet3/1 switchport port-security interface GigabitEthernet3/2 switchport port-security interface GigabitEthernet3/3 switchport port-security interface GigabitEthernet3/3 switchport port-security 2 Port security maximum 1 allowed MAC Critical False False Success 3 Port security violation shutdown Critical False False Success 4 802.1x globally enabled High False False Success Right configuration setting found in:	
Port security maximum 1 allowed MAC on port Port security violation shutdown Critical False False Success High False False Success Right configuration setting found in:	
4 802.1x globally enabled High False False Success	sful 🗸
Right configuration setting found in:	sful 🗸
	sful 🗸
dollx system-auth-control	
5 AAA authentication 802.1x High False False Success	sful 🗸
Right configuration setting found in: aaa authentication dot1x default group RADIUS_SERVER	
6 802.1x enabled on interfaces High False False Success	sful 🗸

Right configuration setting found in: interface GigabitEthernet0/2				
access-session port-control auto				
interface GigabitEthernet0/3 access-session port-control auto				
interface GigabitEthernet1/3				
access-session port-control auto				
interface GigabitEthernet2/0				
access-session port-control auto				
interface GigabitEthernet2/1 access-session port-control auto				
interface GigabitEthernet2/2				
access-session port-control auto				
interface GigabitEthernet2/3				
access-session port-control auto				
interface GigabitEthernet3/0 access-session port-control auto				
interface GigabitEthernet3/1				
access-session port-control auto				
interface GigabitEthernet3/2				
access-session port-control auto interface GigabitEthernet3/3				
access-session port-control auto				
7 802.1x enabled on interfaces	High	False	False	Successful 🗸
8 802.1x port set authenticator	High	False	False	Successful 🗸
Right configuration setting found in: interface GigabitEthernet0/2 dot1x pae authenticator interface GigabitEthernet0/3 dot1x pae authenticator interface GigabitEthernet1/3 dot1x pae authenticator interface GigabitEthernet2/0 dot1x pae authenticator interface GigabitEthernet2/1 dot1x pae authenticator interface GigabitEthernet2/2 dot1x pae authenticator interface GigabitEthernet2/2 dot1x pae authenticator interface GigabitEthernet2/3 dot1x pae authenticator interface GigabitEthernet3/0 dot1x pae authenticator interface GigabitEthernet3/1 dot1x pae authenticator interface GigabitEthernet3/2 dot1x pae authenticator interface GigabitEthernet3/2 dot1x pae authenticator interface GigabitEthernet3/3 dot1x pae authenticator	Critical	Ealco	Ealeo	
9 DHCP Snooping globally enabled	Critical	False	False	Successful 🗸
Right configuration setting found in: ip dhcp snooping				
10 DHCP Snooping enabled for VLAN(s)	Critical	False	False	Successful 🗸
Right configuration setting found in: ip dhcp snooping vlan 10,20,30,40,50,60				
11 DHCP Snooping trust interface(s) set	Critical	False	False	Successful 🗸
Right configuration setting found in: interface Port-channel1 ip dhcp snooping trust interface GigabitEthernet0/1 ip dhcp snooping trust interface GigabitEthernet1/0 ip dhcp snooping trust interface GigabitEthernet1/1 ip dhcp snooping trust interface GigabitEthernet1/2 interface GigabitEthernet1/2				
ip dhcp snooping trust DHCP Snooping rate limit fo ACCESS	Lliah	Ealaa	Folco	Cura-s-E I d
interface(s) set	High	False	False	Successful 🗸

interip dh	t configuration setting found in: face GigabitEthernet0/2 cp snooping limit rate 100 face GigabitEthernet0/3 cp snooping limit rate 100 face GigabitEthernet1/3 cp snooping limit rate 100 face GigabitEthernet2/0 cp snooping limit rate 100 face GigabitEthernet2/1 cp snooping limit rate 100 face GigabitEthernet2/2 cp snooping limit rate 100 face GigabitEthernet2/3 cp snooping limit rate 100 face GigabitEthernet2/3 cp snooping limit rate 100 face GigabitEthernet3/0 cp snooping limit rate 100 face GigabitEthernet3/1 cp snooping limit rate 100 face GigabitEthernet3/2 cp snooping limit rate 100 face GigabitEthernet3/2 cp snooping limit rate 100 face GigabitEthernet3/3 cp snooping limit rate 100 face GigabitEthernet3/3 cp snooping limit rate 100					
13	IPv6 Unicast Routing enabled	Critical	True	False	Not relevant ✓	
	ment: ped, required function ipv6 not configured on devi	ce. Everythin	g is OK.			
14	IPv6 RA Guard host policy defined	Critical	True	False	Not relevant ✓	
	ment: bed, required function ipv6 not configured on devi	ce. Everythin	g is OK.			
15	IPv6 RA Guard on ACCESS interface(s)	Critical	True	False	Not relevant ✓	
	ment: bed, required function ipv6 not configured on device	ce. Everythin	g is OK.			
16	DHCPv6 Server policy	Critical	True	False	Not relevant ✓	
	ment: bed, required function ipv6 not configured on device	ce. Everythin	g is OK.			
17	DHCPv6 Client policy	Critical	True	False	Not relevant ✓	
	ment: ned, required function ipv6 not configured on device	ce. Everythin	g is OK.			
18	DHCPv6 Guard server interface(s) set	Critical	True	False	Not relevant ✓	
	ment: bed, required function ipv6 not configured on device	ce. Everythin	g is OK.			
19	DHCPv6 Guard client interface(s) set	Critical	True	False	Not relevant ✓	
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.						
20	Dynamic ARP Inspection enabled for VLAN(s)	Critical	False	False	Successful 🗸	
	t configuration setting found in: o inspection vian 10,20,30,40,50,60					
21	Dynamic ARP Inspection validate by SRC,DST MAC and IP	Critical	False	False	Successful 🗸	
_	t configuration setting found in: o inspection validate src-mac dst-mac ip					
22	Dynamic ARP trusted interface(s) set	Critical	False	False	Successful 🗸	
1						

Right configuration setting found in: interface Port-channel1 ip arp inspection trust interface GigabitEthernet0/1 ip arp inspection trust interface GigabitEthernet1/0 ip arp inspection trust interface GigabitEthernet1/1 ip arp inspection trust interface GigabitEthernet1/1 ip arp inspection trust interface GigabitEthernet1/2 ip arp inspection trust						
23 IPv6 ND inspection policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on dev	ice. Everything	g is OK.				
24 IPv6 ND inspection on interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on dev	ice. Everything	g is OK.				
25 IPv6 Snooping policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on dev	ice. Everythinç	g is OK.				
26 IPv6 Snooping on interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on dev	ice. Everything	g is OK.				
27 IP Source Guard on interface(s) set	Critical	False	False	Successful 🗸		
Right configuration setting found in: interface GigabitEthernet0/2 ip verify source port-security interface GigabitEthernet0/3 ip verify source port-security interface GigabitEthernet1/3 ip verify source port-security interface GigabitEthernet2/0 ip verify source port-security interface GigabitEthernet2/1 ip verify source port-security interface GigabitEthernet2/2 ip verify source port-security interface GigabitEthernet2/3 ip verify source port-security interface GigabitEthernet3/0 ip verify source port-security interface GigabitEthernet3/1 ip verify source port-security interface GigabitEthernet3/2 ip verify source port-security interface GigabitEthernet3/2 ip verify source port-security interface GigabitEthernet3/3 ip verify source port-security interface GigabitEthernet3/3 ip verify source port-security				Not relevant		
28 IPv6 Source Guard policy	Critical	True	False	✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.						
29 IPv6 Source Guard on interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.						
30 IPv6 Destination Guard policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.						

31	IPv6 Destination Guard on interface(s) set	Critical	True	False	Not relevant ✓
Com	ment:				
Skip	oed, required function ipv6 not configured on device	ce. Everythin	g is OK.		

Other

Other							
No.	Name	Severity	Skipped	Cannot determine search/fix			
1	Servis PAD disabled (Packet assembler disassembler)	High	False	False	Successful 🗸		
	t configuration setting found in: ervice pad						
2	BOOTP server disabled	High	False	False	Successful 🗸		
	t configuration setting found in: bootp server						
3	Finger protocol disabled	High	False	False	Successful 🗸		
4	HTTP server disabled	High	False	False	Error X		
Error configuration setting found in: ip http server							
5	HTTPS server disabled	High	False	False	Successful 🗸		
6	TCP small server disabled	High	False	False	Successful 🗸		
7	UDP small server disabled	High	False	False	Successful 🗸		
3	IP domain lookup disabled	High	False	False	Successful 🗸		
_	t configuration setting found in: domain-lookup						
9	Gratuitous ARPs generation disabled	High	False	False	Successful 🗸		
_	t configuration setting found in: gratuitous-arps						
10	Gratuitous ARPs reject enabled	High	False	False	Successful 🗸		
_	t configuration setting found in: o gratuitous none						
11	Netflow is disabled	Notice	False	False	Successful 🗸		
3y de	gnore comment: efault fix is ignored due to disablement of traffic mo toring	onitoring. Cor	nsider whether	port mirroring i	s neccesary for		
12	Netflow version 9 used	Medium	False	False	Not relevant ✓		
Comment: Module 15_14_netflow_version_9.yaml configured to run after 15_13_netflow.yaml with status error but that module has not run yet with specified cmd_match_status, 15_14_netflow_version_9.yaml will not run							
13	Netflow traffic analyze disabled on interface(s)	Notice	False	False	Not relevant ✓		
Comment: Module 15_15_netflow_interface.yaml configured to run after 15_13_netflow.yaml with status error but that module has not run yet with specified cmd_match_status, 15_15_netflow_interface.yaml will not run							
By de	gnore comment: efault fix is ignored due to disablement of traffic mo toring	onitoring. Cor	nsider whether	port mirroring i	s neccesary for		
14	Port mirroring disabled on interface(s)	Notice	False	False	Successful 🗸		
3y de	gnore comment: efault fix is ignored due to disablement of traffic mo toring		nsider whether	port mirroring i	is neccesary for		
15	Set always "UP" Loopback interface with IP address	Medium	False	False	Successful 🗸		

interi ip ad no ip no ip no ip no ip	t configuration setting found in: face Loopback0 dress 1.1.1.1 255.255.255.0 redirects unreachables proxy-arp v6 unreachables o ifindex persist				
16	Notification on memory IO leak/overflow	Medium	False	False	Successful 🗸
_	t configuration setting found in: otion memory ignore overflow io				
17	Notification on memory CPU leak/overflow	Medium	False	False	Successful 🗸
_	t configuration setting found in: otion memory ignore overflow processor				
18	Network boot disabled	Medium	False	False	Successful 🗸
19	Network config load disabled	Medium	False	False	Successful 🗸
20	SCP server enabled	Medium	False	False	Successful 🗸
	t configuration setting found in: o server enable				
21	SCP alias copy instead of TFTP	High	False	False	Successful 🗸
22	Protection of configuration deletion	High	False	False	Error 🗶
secui secui	erated fix: The boot config The boot-config Notice: The one of fixing command is applicable to device. There	e are more b	ecause of diffe	rent syntax am	ong IOS versions.
23	Archive and log config changes	Medium	False	False	Successful 🗸
archi log co loggi notify hidek path maxi time- mem mem	onfig ng enable v syslog contenttype plaintext				
24	Terminate hanged inbound TCP connection to device	Medium	False	False	Successful 🗸
	t configuration setting found in: ce tcp-keepalives-in				
25	Terminate hanged outbound TCP connection to device	Medium	False	False	Successful 🗸
_	t configuration setting found in: ce tcp-keepalives-out				
26	Encrypt all saved passwords in configuration	Critical	False	False	Successful 🗸
_	t configuration setting found in: rvice password-encryption				